

***LineUp With Math™* Alignment**  
**Idaho Achievement Standards**  
**Mathematics 2-1-06**

**Standard 1: Number and Operation**

**Goal 1.1: Understand and use numbers. Perform computations accurately**

Objective(s)	<i>LineUp With Math™</i> Activities
<b>6.M.1.1.6</b> Solve problems using the 4-step process of problem solving (explore, plan, solve, and examine). (318.01 b)	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.  --Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

**Goal 1.2: Perform computations accurately**

Objective(s)	<i>LineUp With Math™</i> Activities
<b>6.M.1.2.7</b> Use a variety of strategies to solve real life problems. (318.01 a)	--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.

**Goal 1.3: Estimate and judge reasonableness of results.**

Objective(s)	<i>LineUp With Math™</i> Activities
<b>6.M.1.3.1</b> Estimate to predict computation results. (317.03 a)	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

**Standard 2: Concepts and Principles of Measurement**

**Goal 2.1: Understand and use customary and metric measurements.**

Objective(s)	<i>LineUp With Math™</i> Activities
<b>6.M.2.1.1</b> Select and use appropriate units and tools to make formal measurements in both systems. (319.01.a)	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
<b>6.M.2.1.2</b> Apply estimation of measurement to real-world and content problems using standard measuring devices. (319.01.b)	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.
<b>6.M.2.1.3</b> Apply understanding of relationships to solve real-world problems related to elapsed time. (319.01.f)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

**Goal 2.2: Apply the concepts of rates, ratios, and proportions.****Objective(s)**

**6.M.2.2.1** Identify and write ratios and scales (on a map). (319.03.a)

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

**Standard 3: Concepts and Language of Algebra and Functions****Goal 3.4: Understand the concept of functions.****Objective(s)**

**6.M.3.4.3** Use mathematical models to show change in real context. (323.01.c)

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.